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plants, which I accepted with some hesitation, have proved to be among the most interesting things in the distribution. It is regrettable that members living in the lowlands should so readily decide that their mosses are of 'no use to the Club' and I hope that next year they will overcome their bashfulness, and let us have their plants for comparison."

We gain from the report that there were gotten together for distribution, for 1916, a total of 382 species and varieties of mosses and hepatics,—altogether a total of 2,084 packets. The organization, which has a membership of forty-four, is to be congratulated upon its success and it is to be hoped that nothing will prevent a successful continuance of the work.

The Secretary of the Club, Mr. Wm. Ingham, notes in the report that in order to obviate the difficulty of having two systems of naming Sphagna, Mr. Wheldon has undertaken to draw up a new Sphagnum Catalogue based upon Warnstorf's monumental work, *Sphagnologia Universalis*, and, to make the catalogue more interesting and useful, there will be given short descriptions of the difficult species, varieties, and forms, such as those in the Subsecunda group.

CARNEGIE MUSEUM, PITTSBURGH, PA.

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### BORNEAN MOSSES (A REVIEW)

On a collection of Bornean Mosses made by the Rev. C. H. Binstead. By H. N. Dixon, M. A., F. L. S.

This is an extract from the Linnean Society's Journal, Botany, Vol. XLIII, July, 1916. It covers 32 pages and is accompanied by two plates. Of the 138 species and varieties reported, seventeen are new. In the introductory note the author indicates the interesting fact that in this, and doubtless in all tropical areas, the moss vegetation of the jungle is confined to the tops of high trees, where it has some measure of access to the sunlight. In these lofty canopies of the jungle occurs a moss flora almost entirely different from that which is accessible to the ordinary collector who proceeds on foot and collects on or near the ground. This jungle flora becomes accessible only when trees are felled for economic purposes. Mr. Binstead collected only on the ground, and his finds include only five species of thirty-one recorded for Mt. Kinabalu by Mitten and Wright.

The new species and varieties described in this paper are:

1. *Fissidens autoicus* Thér. et Dixon;
2. *Syrrhopodon trachyphyllus*, Mont., subsp. *albifrons* Thér. et Dixon, subsp. nov.;
3. *Syrrhopodon ledruanus* C. Muell., MS in litt. ad E. Levier; with a variety *involutus* Thér. et Dixon;
4. *Syrrhopodon patulifolius* Thér. et Dixon;
5. *Syrrhopodon binsteadii* Thér. et Dixon;
6. *Syrrhopodon tuberculosus* Thér. et Dixon;
7. *Calymperes subsalakense* Thér. et Dixon;
8. *Trichostomum sarawakense* Dixon;

9. *Bryum weberaeforme* Dixon;
10. *Rhizogonium medium laxifolium* Thér., MS in litt. ad auct.;
11. *Atrichum rutleri* Thér. et Dixon;
12. *Pogonatum bornense* Thér. et Dixon;
13. *Homaliodendron fleischeri* Dixon;
14. *Ectropothecium dixonii* Fleisch., sp. nov., MS in litt. ad auct.;
15. *Taxithelium subintegrum* Broth. et Dixon;
16. *Sematophyllum rigens* Brcth., MS in litt. ad Rev. C. H. Binstead;
17. *Sematophyllum downii* (Broth.) Dixon, sp. nov. (*Trichosteleum downii* Broth., MS in litt., ad Rev. C. H. Binstead).

The numerus critical notes scattered through this paper, and other results of close study, bear evidence of the friendly care with which Mr. Dixon is accustomed to do his work on mosses.

JOHN M. HOLZINGER.

WINONA, MINN., OCTOBER 7, 1916.

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#### SHORTER NOTES

Senhor Gonçalo Sampaio<sup>1</sup> has recently published an annotated and descriptive list of fifty lichens belonging to the Portuguese flora, with an additional list of a hundred others for which merely localities are given. The list includes new species in *Omphalaria*, *Lecanora* (2), and *Lecidea*; the details of these species are figured in the text.

Monsieur A. Luisier<sup>2</sup> continues the series of notes on the mosses of Portugal that has already been noticed in these pages. Note eleven is a list of some fifty species of pleurocarpous mosses, with localities; note twelve, a two page article upon *Anacolia Webbii* (Mont.) Schimp. The last note of the series describes and figures two new species, *Didymodon Soaresi* Luis., and *Tortula Abranchesii* Luis., both from near Salamanca.

In an interesting paper Mr. H. N. Dixon<sup>3</sup> has recently described the mosses which were collected by the Rev. C. H. Binstead in British North Borneo. Critical notes are given upon nearly all the species, and attention is called to the large proportion of the collection which belongs to the two genera *Calymperes* and *Syrrhopodon*. The collections seem to emphasize the relationship of the Bornean mosses both to the Indo-Maylayan flora and, on the other hand, to that of New Guinea. [See list of new species in review by Dr. Holzinger, pp. 94, 95, this issue.]

E. B. C.

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<sup>1</sup> Liqueens novos para a flora portuguesa. Gonçalo Sampaio. Broteria. 14: 65-84. fig. 1-4. (Aug. 1916.)

<sup>2</sup> Fragments de bryologie ibérique. A. Luisier. Broteria. 14: 106-117. figs. 1-3. (Aug. 1916.)

<sup>3</sup> On a collection of Bornean Mosses made by the Rev. C. H. Binstead. H. N. Dixon. Journ. Linn. Soc. Botany. 43: 291-323. Pl. 26, 27. (July, 1916.)